

LIBRARY AND INFORMATION SERVICES EDUCATION IN CALIFORNIA



CALIFORNIA POSTSECONDARY EDUCATION COMMISSION

OCTOBER 1993

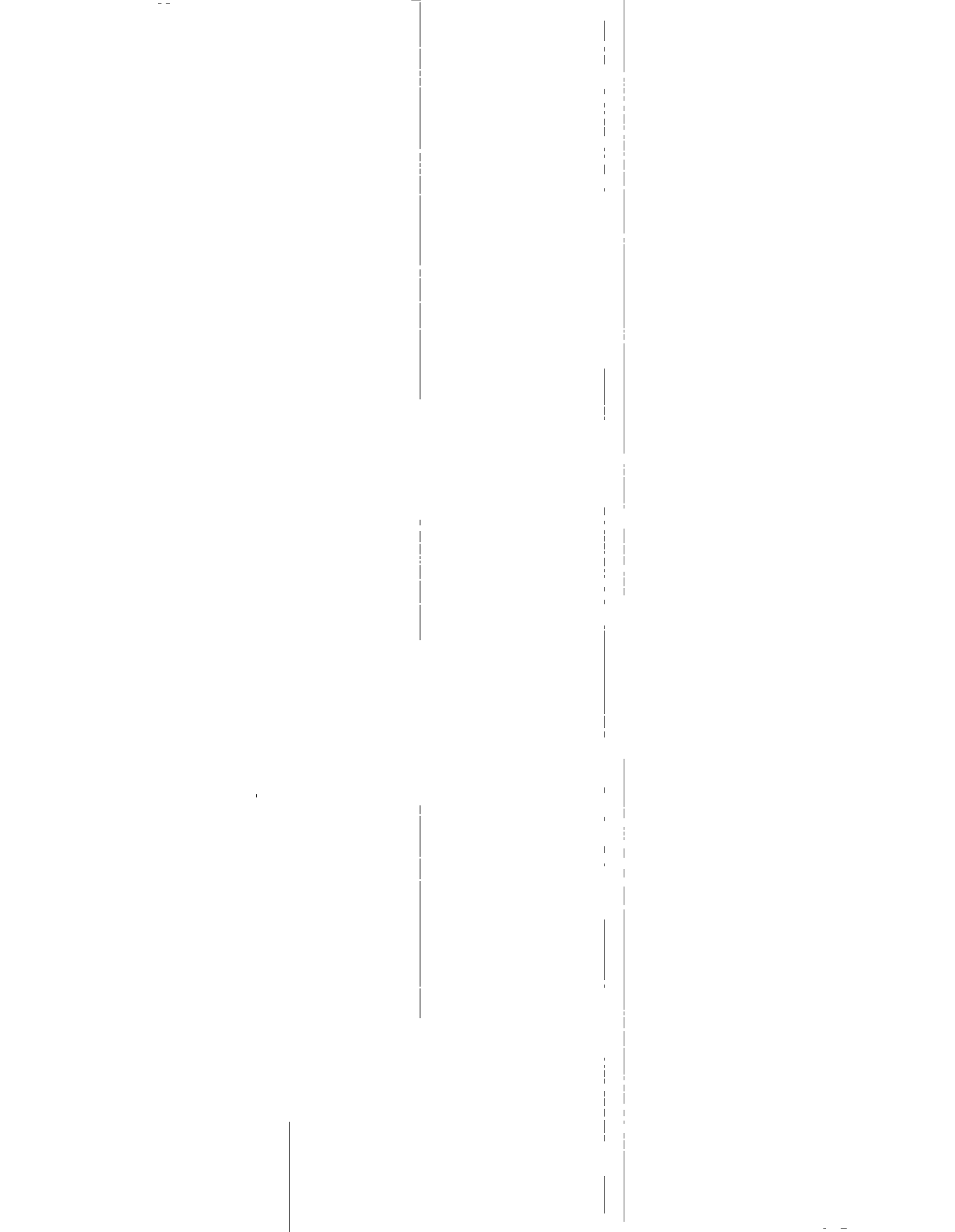
COMMISSION REPORT 93-20

SUMMARY

In July 1993, California's Intersegmental Program Review Council -- consisting of curriculum experts from the State's major systems of higher education -- asked the California Postsecondary Education Commission to study the issue of preparation for the field of library and information services. At that time, the possibility existed that the State might lose much of its capacity to offer graduate work in this field due to the pending reorganization and potential disestablishment of two of the State's three graduate programs -- those at the Berkeley and Los Angeles campuses of the University of California. (The only other graduate program in the State is offered by San Jose State University.)

In this report, the Commission staff looks at State and national job markets for librarians and issues related to library school closures, program viability, and challenges facing library and information service programs in the future. In examining these issues from an intersegmental and statewide perspective, the staff has hoped that the report will help the campuses and systemwide offices reach appropriate decisions regarding the future of the programs.

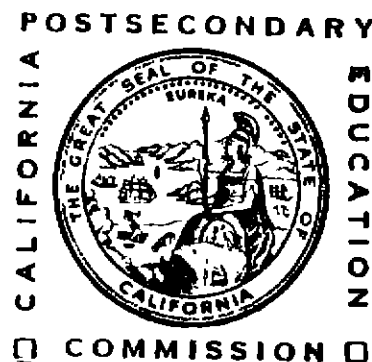
The staff presented the report to the Intersegmental Program Review Council at its September 29, 1993, meeting and to the Educational Policy and Programs Committee of the Postsecondary Education Commission at its October 25, 1993, meeting. Further information about the report may be obtained from the Commission at 1303 J Street, Suite 500, Sacramento, California 95814-2938.



LIBRARY AND INFORMATION SERVICES EDUCATION IN CALIFORNIA

*A Report to the Intersegmental
Program Review Council
from the Staff of the California
Postsecondary Education Commission*

CALIFORNIA POSTSECONDARY EDUCATION COMMISSION
1303 J Street ♦ Suite 500 ♦ Sacramento, California 95814-2938





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PUBLISHED OCTOBER 1993

Contributing Staff Kevin G. Woolfork

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“The informational resources
are exploding while
our budget is imploding.
We are sort of going backward
while information technology
is going forward.”

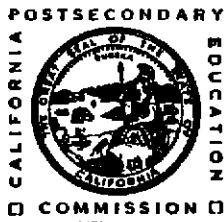
-- Jeff Pudewell,
Director of Main Library
Services and Administration,
University of California, Berkeley (1993)

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LIBRARY AND INFORMATION SERVICES EDUCATION IN CALIFORNIA

THE University of California, Los Angeles, is considering closing its Graduate School of Library and Information Sciences and offering a “downsized” master of library science degree through its Graduate School of Education. The University’s Berkeley campus has suspended admission to its School of Library and Information Studies, awaiting a decision about its reorganization. Scaling back these graduate programs would have implications for the State’s ability to meet its need for trained librarians and other information specialists to serve the public, educational institutions, state and local government, and private business and industry. Following the closure in 1986 by the University of Southern California of its graduate program in library science, California has had only one other graduate program in the field—the one operated by San Jose State University on its own campus and, as a continuing education program charging full costs, at California State University, Fullerton.

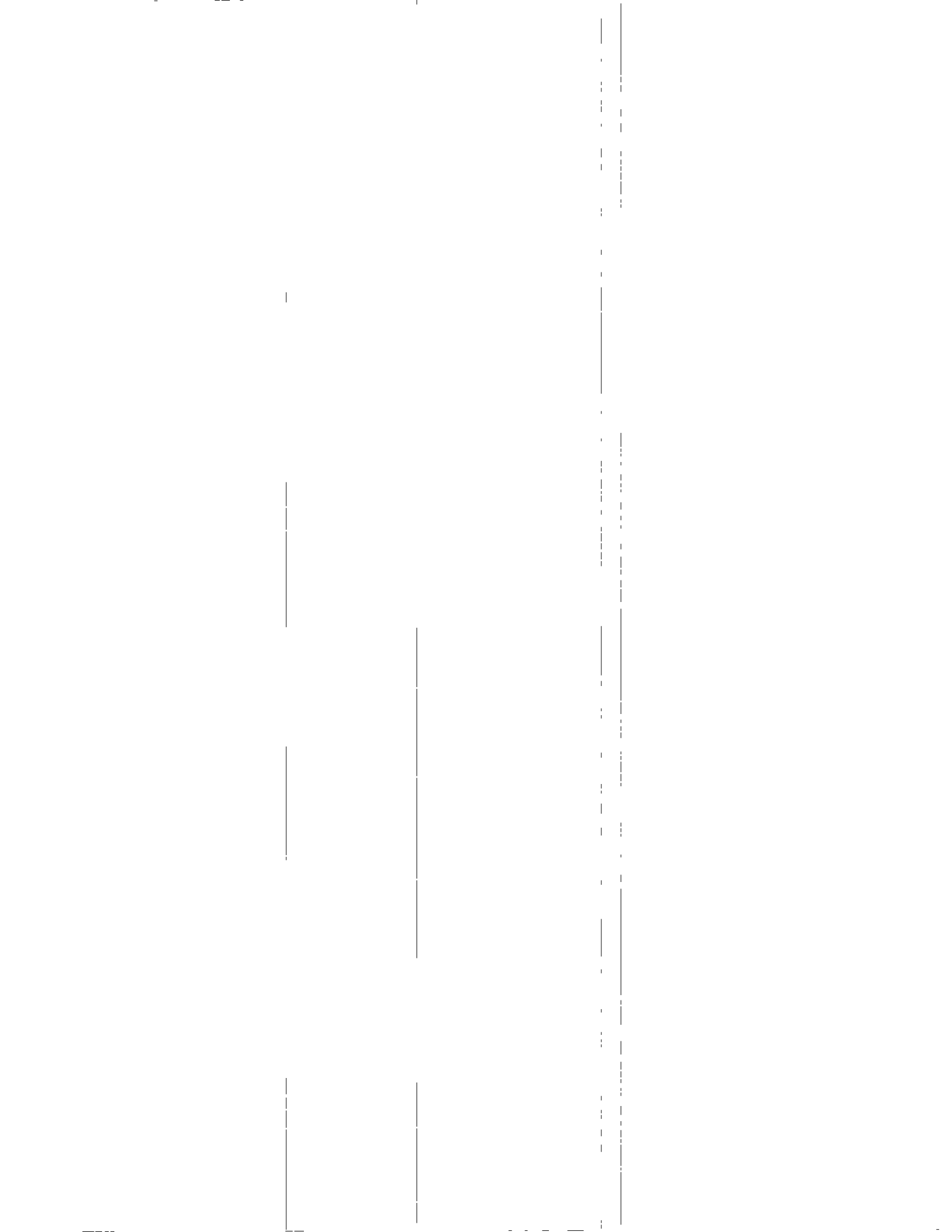
As a result of these developments at the University of California, this report examines issues in library and information services education in California from a national perspective. It identifies library school closings throughout the country, explores the anticipated job market for holders of master’s degrees in library and information services, provides information on recent job placements and salaries of holders of these degrees, describes the UCLA, Berkeley, and San Jose programs, and then discusses a number of issues regarding the education of librarians and information specialists, including factors involved in the closure of library schools elsewhere in the nation and instruction in library science at the undergraduate level.

Regarding terminology, this report uses the phrase “library and information services” to refer to all professional programs offered by library schools. No clear consensus exists on terminology in the field, and both “library and information science” and “library and information studies” are commonly employed in referring to programs leading to such degrees as the master in library science (MLS) and the master in library and information studies (MLIS). Of necessity, this report focuses on those programs and the preparation of information service professionals for California through the early twenty-first century, rather than attempting to cover the much broader topic of the future of information science at large over the long run.

“this report focuses on the preparation of information service professionals for California through the early twenty-first century rather than attempting to cover the much broader topic of the future of information science at large over the long run.”

Library school closings

Only 47 American colleges and universities offer graduate programs in library and information service that are accredited by the Committee on Accreditation of the American Library Association -- the recognized accrediting agency for the field. These 47, which are listed in Display 1 on page 2, constitute fewer than three-fourths



DISPLAY 1 American Colleges and Universities Offering Accredited Graduate Programs in Library and Information Services, 1993

Catholic University of America, School of Library and Information Science (Washington, D C)
Clarion University of Pennsylvania, College of Communication, Computer Information Science, and Library Science (Clarion)
Clark University, School of Librarians and Information Studies (Atlanta)
Drexel University, College of Information Studies (Philadelphia)
Emporia State University, School of Library and Information Management (Emporia, Kansas)
Florida State University, School of Library and Information Studies (Tallahassee)
Indiana University, School of Library and Information Science (Bloomington)
Kent State University, School of Library and Information Science (Kent)
Long Island University, Palmer School of Library and Information Science (Brookville, New York)
Louisiana State University, School of Library and Information Science (Baton Rouge)
North Carolina Central University, School of Library and Information Sciences (Durham)
Northern Illinois University, Department of Library and Information Studies (DeKalb)
Pratt Institute, School of Information and Library Science (Brooklyn)
Queens College, City University of New York, Graduate School of Library and Information Studies (Flushing, New York)
Rosary College, Graduate School of Library and Information Science (River Forest, Illinois)
Rutgers - The State University of New Jersey, School of Communication, Information, and Library Studies (New Brunswick)
St. John's University, Division of Library and Information Science (Jamaica, New York)
San Jose State University, School of Library and Information Science
Simmons College, Graduate School of Library and Information Sciences (Boston)
Southern Connecticut State University, School of Library Science and Instructional Technology (New Haven)
State University of New York at Albany, School of Information Science and Policy
State University of New York at Buffalo, School of Information and Library Studies
Syracuse University, School of Information Studies
Texas Women's University, School of Library and Information Studies (Denton)
University of Alabama, School of Library and Information Studies (Tuscaloosa)
University of Arizona, School of Library Science (Tucson)
University of California, Berkeley, School of Library and Information Studies
University of California, Los Angeles, Graduate School of Library and Information Science
University of Hawaii, School of Library and Information Studies (Honolulu)
University of Illinois, Graduate School of Library and Information Science (Urbana/Champaign)
University of Iowa, School of Library and Information Science (Iowa City)
University of Kentucky, College of Library and Information Science (Lexington)
University of Maryland, College of Library and Information Services (College Park)
University of Michigan, School of Information and Library Studies (Ann Arbor)
University of Missouri, Columbia, School of Library and Information Science
University of North Carolina, School of Information and Library Science (Chapel Hill)
University of North Carolina at Greensboro, Department of Library and Information Studies
University of North Texas, School of Library and Information Sciences (Denton)
University of Oklahoma, School of Library and Information Studies (Norman)
University of Pittsburgh, School of Library and Information Science
University of Puerto Rico, Escuela Graduada de Bibliotecología y Ciencia de la Información (San Juan)
University of Rhode Island, Graduate School of Library and Information Studies (Kingston)
University of South Carolina, College of Library and Information Science (Columbia)
University of South Florida, Division of Library and Information Science (Tampa)
University of Southern Mississippi, School of Library Science (Hattiesburg)
University of Tennessee, Graduate School of Library and Information Science (Knoxville)
University of Texas at Austin, Graduate School of Library and Information Science
University of Wisconsin-Madison, School of Library and Information Studies
University of Washington, Graduate School of Library and Information Science (Seattle)
University of Wisconsin-Milwaukee, School of Library and Information Science
Wayne State University, Library Science Program (Detroit)

Note Besides these institutions, some 35 other American institutions offer graduate library and information science training as part of master of arts or master of education programs and others offer it as part of undergraduate programs. Such programs are not eligible for ALA accreditation.

Source American Library Association, 1993

"Within California, the Employment Development Department forecasts a need for 9,790 new librarians over the 13 years, or an average of 753 per year -- a number far larger than the number of students who graduate each year from all three of California's existing schools"

of the number of institutions that offered such programs in the 1970s. The recent trend of closures began 16 years ago when the University of Oregon abandoned its Graduate School of Librarianship, but not until Columbia University closed its School of Library Service in 1991 did the trend attract national attention. Columbia had created its library school in 1887 under the direction of Melvil Dewey -- creator of the Dewey Decimal System -- and its school was the oldest and, at one time, the most prestigious in the country. Its closure sent shock waves through the profession. The American Library Association held a symposium on the problem, noting that "for a profession as enamored of analyzing and writing about itself as librarianship, its collective voice has been oddly mute on the subject of the closing of 14 of its graduate education programs in the United States since 1978" ("Perspectives on the Elimination of Graduate Programs in Library and Information Studies," p. 259). Display 2 lists those institutions, plus the Fullerton campus of the California State University and Brigham Young University, which dropped its program this summer.

DISPLAY 2 American Colleges and Universities That Have Closed Their Graduate Programs in Library and Information Sciences Since 1978

Alabama Agricultural and Mechanical University (Normal), 1981
 Ball State University (Muncie, Indiana), 1985¹
 Brigham Young University (Provo, Utah), 1993
 California State University, Fullerton, 1979²
 Case Western Reserve University (Cleveland), 1986
 Columbia University (New York), 1991
 Emory University (Atlanta), 1988
 Peabody College of Vanderbilt University (Nashville), 1983
 State University of New York College at Geneseo, 1984
 University of Chicago, 1990
 University of Denver, 1985
 University of Minnesota (St. Paul), 1985
 University of Mississippi (University), 1984
 University of Oregon (Eugene), 1978
 University of Southern California (Los Angeles), 1986
 Western Michigan University (Kalamazoo), 1983

1. Ball State University has retained its undergraduate library science program.

2. Since Fall 1989, San Jose State University has operated an extension program of its School of Library and Information Science on the Fullerton campus.

Source: Adapted from Hyman, 1991, p. 49.

The job market for library school graduates

As of 1990, approximately 149,000 professional librarians were employed in the United States, according to the federal Bureau of Labor Statistics. Under the Bureau's mid-range projections, it anticipates a 9.7 percent increase in the number of these positions, or 16,000 more librarian jobs, over the 15-year period between 1990 and 2005. When coupled with anticipated librarian job openings of some 42,000 due to replacements, it expects more than 58,000 librarian positions to be filled in public agencies, academic institutions, and industry over that 15-year period. This rate of growth over the 15 years is less than one-third the 29 percent average growth rate for 56 high-skill occupations analyzed by the Bureau, and it is among the lowest four of the 30 listed in Display 3 on page 4 -- with only mathematicians, physicists/astronomers, and farm/home management advisors having lower rates.

Within California, the Employment Development Department (1990, pp. 30, 33) has projected that the number of professional librarian jobs in the State will grow by 24.5 percent over the 13-year period between 1987 and 2000 -- a growth rate considerably higher than that projected nationally, but yet not as high as California's projected 32.1 percent growth rate for jobs in general. Including librarian job openings due to separations, the Department forecasts a need for 9,790 new librarians over the 13 years, or an average of 753 per year -- a number far larger than the number of students who graduate each year from all three of California's existing schools.

DISPLAY 3 *Civilian Employment for Selected Occupations, Actual 1990 and Projected 2005, Under Low, Medium, and High Scenarios for Economic Growth, with Total Employment Numbers in Thousands and Professional Librarians Highlighted*

| Occupation | Total Number Employed | | | | Employment Change Between 1990 and 2005 | | | | | | |
|---|-----------------------|----------------|----------|-------|---|----------|-------|---------|----------|------|--|
| | Actual 1990 | Projected 2005 | | | Number | | | Percent | | | |
| | | Low | Moderate | High | Low | Moderate | High | Low | Moderate | High | |
| Architects and surveyors | 236 | 260 | 284 | 300 | 24 | 48 | 64 | 10.2 | 16.9 | 27.1 | |
| Computer and research analysts | | | | | | | | | | | |
| Actuaries | 13 | 16 | 18 | 19 | 3 | 5 | 6 | 23.1 | 27.8 | 46.2 | |
| Systems analysts and computer scientists | 463 | 769 | 829 | 864 | 306 | 366 | 401 | 66.1 | 44.1 | 86.6 | |
| Statisticians | 16 | 16 | 18 | 18 | 0 | 2 | 2 | 0.0 | 11.1 | 12.5 | |
| Mathematicians and math scientists | 22 | 22 | 24 | 25 | 0 | 2 | 3 | 0.0 | 8.3 | 13.6 | |
| Operations research analysts | 57 | 92 | 100 | 104 | 35 | 43 | 47 | 61.4 | 43.0 | 82.5 | |
| Total | 571 | 916 | 987 | 1,030 | 345 | 416 | 459 | 60.4 | 42.1 | 80.4 | |
| Librarians, archivists, and curators | | | | | | | | | | | |
| Professional librarians | 149 | 152 | 165 | 177 | 3 | 16 | 28 | 2.0 | 9.7 | 18.8 | |
| Curators, archivists, and other | 17 | 20 | 21 | 22 | 3 | 4 | 5 | 17.6 | 19.0 | 29.4 | |
| Total | 166 | 172 | 187 | 200 | 6 | 21 | 34 | 3.6 | 11.2 | 20.5 | |
| Life scientists and foresters | 174 | 215 | 230 | 241 | 41 | 56 | 67 | 23.6 | 24.3 | 38.5 | |
| Physical and social scientists | | | | | | | | | | | |
| Geologists, oceanographers, and other | 53 | 61 | 65 | 67 | 8 | 12 | 14 | 15.1 | 18.5 | 26.4 | |
| Physicists and astronomers | 20 | 20 | 21 | 22 | 0 | 1 | 2 | 0.0 | 4.8 | 10.0 | |
| Economists | 37 | 43 | 45 | 47 | 6 | 8 | 10 | 16.2 | 17.8 | 27.0 | |
| Psychologists | 125 | 193 | 204 | 214 | 68 | 79 | 89 | 54.4 | 38.7 | 43.6 | |
| Urban planners and other | 62 | 64 | 71 | 75 | 2 | 9 | 13 | 3.2 | 12.7 | 18.3 | |
| Total | 424 | 524 | 561 | 587 | 100 | 137 | 163 | 23.6 | 24.4 | 38.4 | |
| Selected health, law, and social workers | | | | | | | | | | | |
| Counselors and selected health workers | 1,210 | 1,444 | 1,534 | 1,613 | 234 | 324 | 403 | 19.3 | 21.1 | 33.3 | |
| Lawyers, judges, and judicial workers | 633 | 798 | 850 | 892 | 165 | 217 | 259 | 26.1 | 25.5 | 40.9 | |
| Social, recreational, and religious workers | 1,049 | 1,278 | 1,376 | 1,460 | 229 | 327 | 411 | 21.8 | 23.8 | 39.2 | |
| Total | 2,892 | 3,520 | 3,760 | 3,965 | 628 | 868 | 1,073 | 21.7 | 23.1 | 37.1 | |
| Teachers, faculty, and other instructors | | | | | | | | | | | |
| Elementary school teachers | 1,362 | 1,538 | 1,675 | 1,803 | 176 | 313 | 441 | 12.9 | 18.7 | 32.4 | |
| Preschool and kindergarten teachers | 425 | 555 | 598 | 636 | 130 | 173 | 211 | 30.6 | 28.9 | 49.6 | |
| Special education teachers | 332 | 428 | 467 | 503 | 96 | 135 | 171 | 28.9 | 28.9 | 51.5 | |
| Secondary school teachers | 1,280 | 1,575 | 1,717 | 1,849 | 295 | 437 | 569 | 23.0 | 25.5 | 44.5 | |
| Adult vocational education teachers | 517 | 623 | 669 | 710 | 106 | 152 | 193 | 20.5 | 22.7 | 37.3 | |
| College and university faculty | 712 | 776 | 846 | 911 | 64 | 134 | 199 | 9.0 | 15.8 | 27.9 | |
| Farm and home management advisors | 18 | 18 | 19 | 21 | 0 | 1 | 3 | 0.0 | 5.3 | 16.7 | |
| Sports coaches and physical trainers | 221 | 254 | 274 | 293 | 33 | 53 | 72 | 14.9 | 19.3 | 32.6 | |
| Non-vocational adult education instructors | 219 | 273 | 289 | 304 | 54 | 70 | 85 | 24.7 | 24.2 | 38.8 | |
| Other instructors | 511 | 586 | 636 | 681 | 75 | 125 | 170 | 14.7 | 19.7 | 33.3 | |
| Total | 5,597 | 6,626 | 7,190 | 7,711 | 1,029 | 1,593 | 2,114 | 18.4 | 22.2 | 37.8 | |

Notes: This display does not represent all the high-skill occupations included in the Bureau of Labor Statistics' report, *Outlook 1990-2005*, but instead only selections from among those occupations. Some totals and percentages do not equal the sum of applicable rows due to rounding.

Source: Adapted from U.S. Department of Labor, 1992, p. 67.

Part of the reason for the relatively low rates of growth anticipated for librarians both nationally and in California stems from cutbacks in many public services, including public libraries, since the 1980s. Nonetheless, these low rates do not include employment opportunities for library and information service specialists who do not work as "librarians" as such or in libraries *per se* -- opportunities that are increasing substantially and likely to continue doing so throughout the next century. Because of their training in information management, many library school graduates work in information technology fields as systems analysts, market researchers, operations research analysts, and other specialists. As organizations and agencies besides libraries and other traditional providers of information require more specialists in data retrieval and use, more and more employment options besides librarianship will open for library school graduates.

A major area in which these graduates may find employment is in information management. As an example, in a 1992 report on the U.S. Department of Energy, the General Accounting Office warned that the department lacked a strong information resources management planning process that tied these resources to some planned, specific outcome. It noted the inefficient use of information resources (for instance, overlapping and duplicative information systems) and suggested better planning, direction, and leadership to address this shortcoming. Information management has long been a key part of both library operations and graduate library and information science education, and library school graduates are well-trained in information system design and application.

The most recent year for which job placement information on library school graduates is available is 1991, and Displays 4 through 9 on the next several pages present statistics from the profession's annual survey on these placements and salaries by gender, region, alma mater, and type of library employing them.

Display 4 on page 6 shows the employment status of these graduates and indicates that most of them find library employment. More than 80 percent of the graduates surveyed here are so employed. Display 4 also shows that women graduates outnumber men by more than three to one.

Display 5 on page 7 shows the average full-time salaries received by these graduates and indicates that those graduating from institutions in the northeast earn the highest average salaries, although the west offers the highest median salaries.

Display 6 on that same page shows average salaries for starting library positions from 1985 to 1991 and indicates that increases in these salaries have outpaced increases in the nation's cost-of-living index.

Display 7 on page 8 shows average salaries received by 1991 graduates in various types of libraries. It indicates that the highest salaries reported were earned in the category of "other libraries," but the small number of graduates employed by these libraries is small enough to make their ranking suspect. The next highest overall median salaries were earned at "special libraries."

Display 8 on page 9 shows the number of employment placements of 1991 gradu-

(text continues on page 10)

DISPLAY 4 Employment Status of 1991 Library Science Graduates, by Type of Placement, Alma Mater's Region of the Country, and Gender

| Employment Status | Northeast | Southeast | Midwest | Southwest | West | All Schools |
|--|------------|-----------|------------|-----------|-----------|-------------|
| Permanent Professional Placements | | | | | | |
| Women | 422 | 226 | 476 | 150 | 113 | 1,387 |
| Men | <u>134</u> | <u>45</u> | <u>135</u> | <u>42</u> | <u>43</u> | <u>399</u> |
| Total | 556 | 271 | 611 | 192 | 156 | 1,786 |
| Temporary Professional Placements | | | | | | |
| Women | 35 | 14 | 28 | 6 | 23 | 106 |
| Men | <u>12</u> | <u>5</u> | <u>7</u> | <u>5</u> | <u>10</u> | <u>39</u> |
| Total | 47 | 19 | 35 | 11 | 33 | 145 |
| Nonprofessional Placements | | | | | | |
| Women | 26 | 11 | 39 | 11 | 4 | 91 |
| Men | <u>10</u> | <u>2</u> | <u>4</u> | <u>4</u> | <u>1</u> | <u>21</u> |
| Total | 36 | 13 | 43 | 15 | 5 | 112 |
| Total Library Placements | | | | | | |
| Women | 483 | 251 | 543 | 167 | 140 | 1,584 |
| Men | <u>156</u> | <u>52</u> | <u>146</u> | <u>51</u> | <u>54</u> | <u>459</u> |
| Total | 639 | 303 | 689 | 218 | 194 | 2,043 |
| Non-Library Placements | | | | | | |
| Women | 17 | 9 | 13 | 4 | 8 | 51 |
| Men | <u>9</u> | <u>4</u> | <u>13</u> | <u>6</u> | <u>5</u> | <u>37</u> |
| Total | 26 | 13 | 26 | 10 | 13 | 88 |
| Employment Not Known | | | | | | |
| Women | 48 | 20 | 139 | 53 | 0 | 260 |
| Men | <u>19</u> | <u>6</u> | <u>36</u> | <u>5</u> | <u>0</u> | <u>66</u> |
| Total | 67 | 26 | 175 | 58 | 0 | 326 |
| Total, All Categories | | | | | | |
| Women | 548 | 280 | 695 | 224 | 148 | 1,895 |
| Men | <u>184</u> | <u>62</u> | <u>195</u> | <u>62</u> | <u>59</u> | <u>562</u> |
| Total | 732 | 342 | 890 | 286 | 207 | 2,457 |
| Percentages | | | | | | |
| Library Placements | 87.2% | 88.5% | 77.4% | 76.2% | 93.7% | 83.1% |
| Non-Library Placements | 3.6 | 3.8 | 2.9 | 3.5 | 6.3 | 3.6 |
| Employment Not Known | 9.2 | 7.6 | 19.7 | 20.3 | — | 13.3 |

Note: Percentage totals may not sum to 100 due to rounding.

Source: Adapted from Zipkowitz, 1992, Table 1, p. 31.

DISPLAY 5 Full-Time Salaries of 1991 Library Science Graduates, by Alma Mater's Region of the Country and Gender

| Category | Northeast | Southeast | Midwest | Southwest | West | All Schools |
|---------------------------------|------------|-----------|------------|-----------|-----------|-------------|
| Number of Salaries Known | | | | | | |
| Women | 346 | 194 | 393 | 137 | 82 | 1,152 |
| Men | <u>111</u> | <u>38</u> | <u>122</u> | <u>34</u> | <u>33</u> | <u>338</u> |
| Total | 457 | 232 | 515 | 171 | 115 | 1,490 |
| Low Salary | | | | | | |
| Women | \$10,000 | \$13,000 | \$10,000 | \$14,000 | \$10,000 | \$10,000 |
| Men | 16,000 | 19,600 | 12,000 | 10,000 | 10,000 | 10,000 |
| Total | 10,000 | 13,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| High Salary | | | | | | |
| Women | \$60,000 | \$44,000 | \$48,000 | \$39,500 | \$49,000 | \$60,000 |
| Men | 62,500 | 32,000 | 55,000 | 37,500 | 65,000 | 65,000 |
| Total | 62,500 | 44,000 | 55,000 | 39,500 | 65,000 | 65,000 |
| Average Salary | | | | | | |
| Women | \$27,343 | \$23,863 | \$24,891 | \$23,894 | \$29,307 | \$25,654 |
| Men | 28,487 | 24,405 | 25,613 | 25,191 | 30,041 | 26,811 |
| Total | 27,621 | 23,951 | 25,062 | 24,152 | 26,811 | 25,909 |
| Median Salary | | | | | | |
| Women | \$26,173 | \$23,000 | \$24,000 | \$23,000 | \$28,494 | \$25,000 |
| Men | 27,000 | 23,733 | 24,450 | 24,750 | 29,900 | 25,500 |
| Total | 26,400 | 23,000 | 24,000 | 23,500 | 28,600 | 25,000 |

Source Adapted from Zipkowitz, 1992, Table 2, p 31

DISPLAY 6 Average Beginning Salaries for Library Positions, 1985-1991, with Increases Compared to the US Consumer Price Index

| Year | Number of <u>Library Schools</u> | Average <u>Beginning Salary</u> | Dollar Increase <u>in Average Salary</u> | Percent Increase <u>in Average Salary</u> | Comparative Indices <u>Salaries</u> | <u>Price Index</u> |
|------|-------------------------------------|------------------------------------|---|--|--|--------------------|
| 1985 | 58 | \$19,753 | \$962 | — | 111 6 | 107 3 |
| 1986 | 54 | 20,874 | 1,121 | 5 67 % | 118 0 | 109 1 |
| 1987 | 55 | 22,247 | 1,373 | 6 58 | 125 7 | 113 3 |
| 1988 | 51 | 23,491 | 1,244 | 5 59 | 132 8 | 117 7 |
| 1989 | 43 | 24,581 | 1,090 | 4 64 | 138 9 | 121 3 |
| 1990 | 38 | 25,306 | 725 | 2 95 | 143 0 | 127 0 |
| 1991 | 46 | 25,583 | 277 | 1 09 | 144 6 | 134 0 |

Source Adapted from Zipkowitz, 1992, Table 5, p 35

DISPLAY 7 Salaries of 1991 Library Science Graduates in Five Types of Libraries, by Alma Mater's Region of Country and Gender of Graduate

| | Number of Placements | Salaries Known | | Low Salary | | High Salary | | Average Salary | | Median Salary | | |
|----------------------------------|----------------------|----------------|-----------|------------|----------|-------------|----------|----------------|----------|---------------|----------|----------|
| | | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Total |
| Public Libraries | | | | | | | | | | | | |
| Northeast | 153 | 105 | 29 | \$14,500 | \$18,000 | \$45,000 | \$51,000 | \$24,782 | \$27,091 | \$24,600 | \$25,700 | \$25,000 |
| Southeast | 85 | 60 | 15 | 14,000 | 19,600 | 28,080 | 25,600 | 22,129 | 21,999 | 22,326 | 22,000 | 22,000 |
| Midwest | 260 | 163 | 52 | 11,200 | 18,000 | 34,000 | 32,100 | 23,011 | 23,892 | 23,000 | 23,950 | 23,047 |
| Southwest | 58 | 41 | 9 | 14,400 | 20,000 | 29,500 | 26,000 | 21,640 | 23,413 | 21,700 | 23,500 | 22,050 |
| West | <u>55</u> | <u>34</u> | <u>6</u> | 20,556 | 21,400 | 35,000 | 32,000 | 27,610 | 27,794 | 28,000 | 27,816 | 28,000 |
| All Schools | 611 | 403 | 11 | 11,200 | 18,000 | 45,000 | 51,000 | 23,590 | 24,644 | 23,000 | 24,000 | 23,400 |
| K-12 School Libraries | | | | | | | | | | | | |
| Northeast | 124 | 97 | 6 | 10,400 | 16,000 | 60,000 | 62,500 | 29,115 | 36,783 | 27,600 | 34,350 | 28,000 |
| Southeast | 96 | 72 | 3 | 14,500 | 23,000 | 38,000 | 28,000 | 24,691 | 24,981 | 24,000 | 23,944 | 24,000 |
| Midwest | 122 | 72 | 4 | 10,650 | 26,000 | 42,124 | 27,000 | 26,775 | 26,484 | 26,000 | 26,468 | 26,000 |
| Southwest | 45 | 37 | 2 | 17,500 | 22,500 | 32,591 | 24,500 | 25,222 | 23,500 | 25,000 | 23,500 | 25,000 |
| West | <u>22</u> | <u>17</u> | <u>2</u> | 25,000 | 41,000 | 49,000 | 42,000 | 32,782 | 41,500 | 30,000 | 41,500 | 30,297 |
| All Schools | 409 | 295 | 17 | 10,400 | 16,000 | 60,000 | 62,500 | 27,187 | 32,169 | 26,000 | 26,635 | 26,000 |
| College and University Libraries | | | | | | | | | | | | |
| Northeast | 120 | 60 | 37 | 14,096 | 17,000 | 42,000 | 38,000 | 25,406 | 25,976 | 25,500 | 26,000 | 26,000 |
| Southeast | 74 | 37 | 13 | 13,000 | 20,000 | 35,000 | 32,000 | 23,814 | 25,659 | 23,400 | 24,000 | 23,500 |
| Midwest | 164 | 69 | 36 | 12,000 | 12,000 | 36,000 | 42,000 | 25,009 | 26,306 | 25,000 | 25,000 | 25,000 |
| Southwest | 55 | 33 | 13 | 15,000 | 10,000 | 39,500 | 35,000 | 23,469 | 25,662 | 22,500 | 22,200 | 22,500 |
| West | <u>39</u> | <u>12</u> | <u>14</u> | 19,008 | 22,500 | 36,696 | 65,000 | 27,694 | 31,087 | 26,250 | 29,294 | 28,094 |
| All Schools | 452 | 211 | 113 | 12,000 | 10,000 | 42,000 | 65,000 | 24,824 | 26,468 | 24,000 | 25,000 | 25,000 |
| Special Libraries | | | | | | | | | | | | |
| Northeast | 125 | 70 | 34 | 10,000 | 21,500 | 45,000 | 43,000 | 29,232 | 29,656 | 30,000 | 29,500 | 30,000 |
| Southeast | 38 | 22 | 4 | 15,653 | 20,000 | 34,354 | 29,750 | 24,323 | 25,054 | 23,970 | 25,234 | 24,470 |
| Midwest | 126 | 73 | 19 | 11,040 | 18,900 | 48,000 | 32,423 | 27,553 | 25,455 | 26,000 | 24,200 | 25,709 |
| Southwest | 33 | 23 | 8 | 16,500 | 25,200 | 38,000 | 37,500 | 27,002 | 28,478 | 26,000 | 27,395 | 26,789 |
| West | <u>35</u> | <u>12</u> | <u>6</u> | 21,600 | 18,000 | 33,000 | 32,772 | 27,825 | 25,845 | 27,900 | 25,650 | 27,800 |
| All Schools | 357 | 200 | 71 | 10,000 | 18,000 | 48,000 | 43,000 | 27,738 | 27,818 | 27,000 | 27,000 | 27,000 |
| Other Libraries | | | | | | | | | | | | |
| Northeast | 30 | 13 | 5 | 25,000 | 26,280 | 53,000 | 53,000 | 35,142 | 37,256 | 34,000 | 37,000 | 34,500 |
| Southeast | 16 | 6 | 3 | 24,000 | 29,000 | 44,000 | 30,000 | 29,892 | 29,557 | 28,175 | 29,670 | 29,000 |
| Midwest | 41 | 15 | 11 | 18,000 | 19,000 | 29,252 | 55,000 | 24,252 | 31,431 | 25,000 | 28,000 | 25,013 |
| Southwest | 8 | 3 | 2 | 17,500 | 25,000 | 20,000 | 32,000 | 19,167 | 28,500 | 20,000 | 28,500 | 20,000 |
| West | <u>15</u> | <u>7</u> | <u>4</u> | 27,000 | 30,500 | 48,000 | 50,000 | 34,410 | 37,125 | 34,000 | 34,000 | 34,000 |
| All Schools | 110 | 44 | 25 | 17,500 | 19,000 | 53,000 | 55,000 | 29,508 | 33,048 | 27,000 | 30,500 | 28,000 |

Source: Adapted from Zipkowitz, 1992, Table 4 p. 33

*DISPLAY 8 Employment Placements of 1991 Library Science Graduates in Four Types of Library,
by Alma Mater and Gender*

| Institution | Public Libraries | | K-12 Libraries | | College and University Libraries | | Special and Other Libraries | | All Libraries | | |
|--|------------------|----------|----------------|----------|----------------------------------|----------|-----------------------------|----------|---------------|-----------|-----------|
| | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Total |
| University of Alabama | 11 | 4 | 4 | 0 | 9 | 2 | 5 | 0 | 29 | 6 | 35 |
| Brigham Young University | 6 | 0 | 2 | 0 | 3 | 8 | 0 | 0 | 11 | 8 | 19 |
| University of California, Berkeley | 12 | 4 | 4 | 0 | 8 | 5 | 10 | 4 | 34 | 13 | 47 |
| University of California, Los Angeles | 20 | 4 | 0 | 0 | 6 | 3 | 14 | 4 | 40 | 11 | 51 |
| Catholic University of America | 4 | 0 | 5 | 0 | 3 | 3 | 9 | 11 | 21 | 14 | 35 |
| Clanion University of Pennsylvania | 8 | 1 | 10 | 0 | 9 | 2 | 2 | 0 | 29 | 3 | 32 |
| Clark University | 1 | 1 | 2 | 0 | 3 | 4 | 3 | 1 | 9 | 6 | 15 |
| Columbia University | 4 | 1 | 0 | 0 | 5 | 6 | 8 | 7 | 17 | 14 | 31 |
| Drexel University | 14 | 8 | 9 | 1 | 11 | 6 | 11 | 5 | 45 | 20 | 65 |
| Emporia State University | 22 | 1 | 31 | 2 | 11 | 3 | 11 | 3 | 75 | 9 | 84 |
| Florida State University | 11 | 1 | 6 | 3 | 4 | 2 | 7 | 3 | 28 | 9 | 37 |
| University of Hawaii | 6 | 2 | 14 | 0 | 3 | 4 | 6 | 3 | 29 | 9 | 38 |
| University of Illinois, Urbana/Champaign | 8 | 3 | 1 | 0 | 24 | 9 | 4 | 0 | 37 | 15 | 52 |
| Indiana University | 34 | 8 | 6 | 0 | 20 | 5 | 12 | 4 | 72 | 17 | 89 |
| University of Iowa | 8 | 2 | 2 | 1 | 4 | 1 | 7 | 2 | 21 | 6 | 27 |
| Kent State University | 33 | 17 | 10 | 1 | 8 | 4 | 8 | 3 | 59 | 25 | 84 |
| University of Kentucky | 8 | 3 | 13 | 0 | 10 | 7 | 4 | 3 | 35 | 13 | 48 |
| Louisiana State University | 13 | 2 | 8 | 0 | 4 | 3 | 6 | 6 | 31 | 11 | 42 |
| University of Michigan, Ann Arbor | 19 | 3 | 0 | 0 | 14 | 6 | 27 | 5 | 60 | 14 | 74 |
| University of Missouri, Columbia | 18 | 2 | 4 | 0 | 2 | 4 | 12 | 2 | 36 | 8 | 44 |
| North Carolina Central University | 7 | 1 | 8 | 0 | 0 | 1 | 4 | 0 | 19 | 2 | 21 |
| University of North Carolina, Chapel Hill | 8 | 2 | 3 | 0 | 11 | 3 | 7 | 3 | 29 | 8 | 37 |
| University of North Carolina at Greensboro | 2 | 1 | 26 | 0 | 6 | 0 | 1 | 0 | 35 | 1 | 36 |
| University of North Texas | 19 | 3 | 10 | 0 | 12 | 6 | 1 | 4 | 42 | 13 | 56 |
| Northern Illinois University | 12 | 6 | 8 | 0 | 0 | 1 | 4 | 1 | 24 | 8 | 32 |
| University of Oklahoma | 6 | 1 | 14 | 1 | 3 | 0 | 1 | 0 | 24 | 2 | 26 |
| University of Pittsburgh | 4 | 0 | 5 | 0 | 7 | 5 | 3 | 1 | 19 | 6 | 25 |
| Queens College, City University of New York | 9 | 6 | 5 | 1 | 3 | 2 | 5 | 3 | 22 | 12 | 34 |
| University of Rhode Island | 10 | 0 | 13 | 1 | 6 | 1 | 7 | 1 | 36 | 3 | 39 |
| Rosary College | 35 | 5 | 16 | 2 | 7 | 3 | 10 | 5 | 68 | 15 | 83 |
| Rutgers The State University of New Jersey | 35 | 12 | 18 | 1 | 11 | 10 | 28 | 7 | 92 | 30 | 122 |
| St. Johns University | 8 | 2 | 3 | 0 | 1 | 1 | 10 | 2 | 22 | 5 | 27 |
| Simmons College | 27 | 0 | 8 | 0 | 16 | 5 | 25 | 7 | 76 | 12 | 88 |
| University of South Carolina | 9 | 4 | 23 | 1 | 11 | 6 | 5 | 2 | 48 | 13 | 61 |
| Southern Connecticut State University | 13 | 2 | 13 | 1 | 2 | 2 | 5 | 3 | 33 | 8 | 41 |
| University of South Mississippi | 5 | 1 | 10 | 0 | 2 | 0 | 0 | 0 | 17 | 1 | 18 |
| State University of New York at Albany | 12 | 3 | 29 | 2 | 9 | 4 | 6 | 2 | 56 | 11 | 67 |
| State University of New York at Buffalo | 5 | 2 | 13 | 1 | 7 | 1 | 5 | 0 | 30 | 4 | 34 |
| University of Tennessee | 5 | 0 | 4 | 0 | 6 | 1 | 5 | 1 | 20 | 2 | 22 |
| University of Texas at Austin | 11 | 5 | 14 | 1 | 18 | 11 | 22 | 8 | 65 | 25 | 90 |
| Texas Woman's University | 15 | 1 | 7 | 0 | 8 | 2 | 4 | 1 | 34 | 4 | 38 |
| University of Washington | 10 | 0 | 4 | 2 | 9 | 2 | 5 | 5 | 28 | 9 | 37 |
| Wayne State University | 19 | 6 | 10 | 4 | 8 | 1 | 10 | 3 | 47 | 14 | 61 |
| University of Wisconsin-Madison | 4 | 3 | 12 | 0 | 8 | 5 | 6 | 2 | 30 | 10 | 40 |
| University of Wisconsin-Milwaukee | <u>3</u> | <u>4</u> | <u>6</u> | <u>0</u> | <u>5</u> | <u>1</u> | <u>9</u> | <u>1</u> | <u>23</u> | <u>6</u> | <u>29</u> |
| Total | 553 | 137 | 413 | 26 | 337 | 161 | 354 | 131 | 1,657 | 455 | 2,113 |

Note California Postsecondary Education Commission data from the University of California indicate that Berkeley graduated 89 master's degree candidates in 1991 and UCLA graduated 82

Source Adapted from Zipkowitz 1992, Table 3, p. 32

ates by individual library school in four types of libraries, with the University of California's two schools highlighted (Similar placement data from the same annual survey for San Jose State University are unavailable) These data indicate that Berkeley and UCLA placed 47 and 51 graduates, respectively, in library positions, with public libraries being their most common employer This display also shows that the three universities with the largest number of library placements in 1991 were, in descending order, Rutgers with 122, Texas at Austin with 90, and Indiana with 89

graduates of the two University of California schools earned among the most of all, with the median of Berkeley ranking highest at \$30,490 and UCLA ranking third at \$28,844 -- outranked only by Hawaii at \$30,000 "

Display 9 on the opposite page shows the average full-time salaries earned by 1991 graduates of the 45 schools As can be seen, graduates of the two University of California schools earned among the most of all, with the median of Berkeley ranking highest at \$30,490 and UCLA ranking third at \$28,844 -- outranked only by Hawaii at \$30,000 (While not all University of California graduates are employed in the State, part of these high rankings may be due to California's comparatively high cost of living and salary ranges in general)

Because of the likelihood that special libraries will employ an increasing number of library school graduates in the future, Display 10 on page 12 shows employment placement statistics on 1991 graduates working in these libraries, and Display 11 shows average salaries received by graduates in different types of special libraries in 1985 -- the latest year for which these data are available Display 10 shows that children's and youth service libraries within schools and public libraries now account for the largest number of employment opportunities in special libraries, but it also illustrates the wide range of other special libraries, from those in law, medicine, and the armed forces to those in business corporations and other private-sector agencies These libraries tend to be small in number of staff, despite the large clientele they serve For example, most private-sector organizations with their own libraries employ a staff of only one or two librarians, while a staff of seven or eight librarians may serve as the central information resource of a large corporation As Display 11 indicates, salaries in these corporate libraries tend to be the highest among all special libraries With the economy moving increasingly toward information-intensive employment, opportunities in corporate and other private-sector information service centers are likely to continue to increase throughout the foreseeable future

California's programs in library and information service

As noted earlier, only three California universities have offered graduate library and information services education programs in recent years -- Berkeley, UCLA, and San Jose State

University of California, Berkeley

The Berkeley campus of the University of California first offered library instruction in 1902 as a summer program and in 1918 offered it during the regular academic year within the College of Letters and Science In 1921, it created a department of librarianship, which evolved within five years into a graduate school offering a one-year certificate program in librarianship From 1928 through 1958, it offered a two-year curriculum leading to a master of arts in library studies In 1947, the school

DISPLAY 9 Placements and Full-Time Salary Ranges of 1991 Library Science Graduates, by Alma Mater and Gender

| Institution | Number of Placements | Low Salary | | High Salary | | Average Salary | | Median Salary | | |
|--|----------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|
| | | Women | Men | Women | Men | Women | Men | Women | Men | Total |
| University of Alabama | 32 | \$18,925 | \$19,600 | \$29,800 | \$28,500 | \$22,800 | \$23,133 | \$22,750 | \$23,000 | \$22,750 |
| Brigham Young University | 18 | 19,008 | 21,800 | 34,500 | 32,000 | 25,258 | 23,816 | 24,500 | 24,050 | 24,300 |
| University of California, Berkeley | 41 | 21,000 | 21,400 | 48,000 | 65,000 | 31,388 | 34,344 | 30,000 | 30,700 | 30,490 |
| University of California, Los Angeles | 36 | 22,000 | 22,500 | 36,868 | 28,688 | 29,757 | 25,551 | 29,500 | 25,508 | 28,844 |
| Catholic University of America | 28 | 19,000 | 17,000 | 32,500 | 41,750 | 25,823 | 28,304 | 25,750 | 27,691 | 26,145 |
| Clanion University of Pennsylvania | 25 | 10,000 | 17,000 | 31,000 | 24,000 | 21,485 | 20,733 | 22,400 | 21,200 | 21,850 |
| Clark University | 15 | 25,000 | 22,500 | 35,186 | 24,750 | 30,093 | 23,625 | 30,093 | 23,625 | 24,875 |
| Columbia University | 27 | 19,200 | 25,260 | 53,000 | 37,000 | 32,538 | 30,927 | 28,500 | 28,500 | 28,500 |
| Drexel University | 56 | 15,500 | 20,000 | 45,000 | 51,000 | 28,007 | 31,573 | 27,000 | 29,000 | 27,711 |
| Emporia State University | 83 | 19,000 | — | 30,000 | — | 25,102 | — | 25,000 | — | 25,000 |
| Florida State University | 33 | 18,000 | 20,500 | 33,971 | 32,000 | 23,420 | 26,750 | 22,975 | 28,000 | 23,000 |
| University of Hawaii | 17 | 20,556 | 27,000 | 49,000 | 30,500 | 31,102 | 28,750 | 30,000 | 28,750 | 30,000 |
| University of Illinois, Urbana/Champaign | 35 | 10,650 | 22,000 | 32,500 | 33,000 | 23,488 | 24,904 | 24,000 | 23,540 | 24,000 |
| Indiana University | 80 | 11,040 | 18,500 | 46,000 | 55,000 | 23,560 | 27,877 | 23,266 | 25,000 | 23,720 |
| University of Iowa | 24 | 18,720 | 24,000 | 32,250 | 36,000 | 25,476 | 28,135 | 26,185 | 25,655 | 26,185 |
| Kent State University | 77 | 16,000 | 18,000 | 38,000 | 48,000 | 25,290 | 25,652 | 23,906 | 23,750 | 23,906 |
| University of Kentucky | 48 | 18,000 | 22,000 | 31,000 | 33,000 | 23,937 | 26,615 | 24,000 | 2,600 | 24,750 |
| Louisiana State University | 35 | 18,500 | 22,000 | 34,354 | 28,000 | 23,749 | 25,239 | 21,500 | 25,717 | 22,274 |
| University of Michigan, Ann Arbor | 63 | 18,000 | 21,600 | 48,000 | 32,000 | 26,433 | 24,677 | 25,500 | 24,000 | 25,000 |
| University of Missouri, Columbia | 42 | 20,000 | 21,000 | 39,000 | 32,423 | 24,685 | 24,832 | 24,000 | 23,000 | 23,658 |
| North Carolina Central University | 21 | 19,500 | 20,000 | 32,400 | 25,600 | 21,406 | 22,800 | 23,800 | 23,800 | 23,800 |
| University of North Carolina Chapel Hill | 37 | 19,185 | 20,100 | 44,000 | 29,670 | 24,635 | 24,654 | 23,800 | 23,192 | 23,500 |
| University of North Carolina at Greensboro | 33 | 14,500 | 21,750 | 30,000 | 21,750 | 23,492 | 21,750 | 23,500 | 21,750 | 23,250 |
| University of North Texas | 48 | 14,400 | 20,000 | 29,439 | 35,000 | 22,324 | 26,890 | 22,000 | 27,600 | 22,214 |
| Northern Illinois University | 32 | 16,000 | 12,000 | 42,124 | 24,200 | 24,996 | 20,963 | 24,700 | 23,250 | 23,800 |
| University of Oklahoma | 24 | 17,500 | 22,500 | 25,000 | 22,500 | 22,452 | 22,500 | 22,500 | 22,500 | 22,500 |
| University of Pittsburgh | 23 | 14,096 | 18,400 | 37,000 | 53,000 | 25,664 | 27,800 | 25,000 | 23,600 | 24,395 |
| Queens College, City University of New York | 30 | 22,000 | 20,000 | 52,000 | 36,000 | 31,279 | 26,689 | 27,000 | 26,100 | 26,280 |
| University of Rhode Island | 24 | 19,400 | 16,000 | 42,000 | 26,000 | 26,337 | 21,000 | 23,500 | 21,000 | 23,500 |
| Rosary College | 78 | 13,150 | 21,600 | 41,000 | 40,000 | 25,138 | 27,100 | 24,000 | 26,150 | 24,200 |
| Rutgers - The State University of New Jersey | 100 | 24,000 | 21,800 | 54,891 | 62,500 | 29,251 | 28,253 | 28,000 | 26,000 | 27,250 |
| St. Johns University | 24 | 10,400 | 26,000 | 60,000 | 27,000 | 31,300 | 26,333 | 28,000 | 26,000 | 27,550 |
| Simmons College | 76 | 13,000 | 21,500 | 35,000 | 31,700 | 24,502 | 26,030 | 24,600 | 26,300 | 25,000 |
| University of South Carolina | 55 | 13,000 | 20,000 | 38,000 | 30,000 | 24,312 | 24,109 | 23,900 | 23,733 | 23,733 |
| Southern Connecticut State University | 26 | 16,000 | 20,636 | 44,820 | 47,000 | 28,666 | 30,439 | 28,695 | 28,500 | 28,695 |
| University of South Mississippi | 18 | 17,875 | 22,000 | 30,000 | 22,000 | 20,984 | 22,000 | 20,102 | 22,000 | 20,476 |
| State University of New York at Albany | 46 | 19,000 | 18,000 | 40,000 | 43,000 | 27,214 | 29,854 | 26,000 | 29,068 | 26,500 |
| State University of New York at Buffalo | 18 | 17,000 | 28,337 | 37,884 | 28,337 | 26,295 | 28,337 | 24,929 | 28,337 | 25,000 |
| University of Tennessee | 13 | 17,000 | — | 37,750 | — | 25,767 | — | 24,600 | — | 24,500 |
| University of Texas at Austin | 80 | 18,500 | 20,000 | 39,500 | 37,500 | 25,814 | 25,623 | 25,000 | 24,750 | 25,000 |
| Texas Women's University | 31 | 16,500 | 10,000 | 32,591 | 26,000 | 23,599 | 19,000 | 22,500 | 21,000 | 22,250 |
| University of Washington | 21 | 21,600 | 18,000 | 32,500 | 42,000 | 26,538 | 32,462 | 25,438 | 35,386 | 26,124 |
| Wayne State University | 45 | 19,000 | 19,600 | 40,000 | 28,000 | 25,696 | 24,039 | 24,600 | 25,000 | 24,600 |
| University of Wisconsin-Madison | 35 | 15,000 | 22,000 | 30,000 | 33,000 | 23,240 | 25,683 | 24,000 | 25,425 | 24,250 |
| University of Wisconsin-Milwaukee | 20 | 17,000 | 19,000 | 33,500 | 26,000 | 25,879 | 22,283 | 25,000 | 22,100 | 24,250 |

Source: Adapted from Zipkowitz, 1992, Table 4, p. 33

DISPLAY 10 Placements of 1991 Library Science Graduates in Special Libraries, by Gender

| Type of Special Library | Women | Men | Total | Type of Special Library | Women | Men | Total |
|---|-------|-----|-------|---|-------|-----|-------|
| Government Jurisdictions | | | | Other (continued) | | | |
| State libraries | 7 | 1 | 8 | Government documents | 1 | 1 | 2 |
| Other government agencies except Veterans Administration hospitals | 6 | 4 | 10 | Information services (nonlibrary) | 2 | 7 | 9 |
| National libraries | 8 | 5 | 13 | Historical agencies and archives | 4 | 6 | 10 |
| Armed Services libraries | 2 | 1 | 3 | Religion (seminaries, theological schools) | 3 | 2 | 5 |
| Overseas agencies, including Armed Services | 0 | 0 | 0 | Art and museum | 4 | 3 | 7 |
| Library Science | | | | Databases (publishing, servicing) | 6 | 1 | 7 |
| Advanced study | 3 | 2 | 5 | Outreach activities and services | 5 | 1 | 6 |
| Teaching | 0 | 0 | 0 | Social sciences | 0 | 1 | 1 |
| Other | | | | Indexing | 0 | 0 | 0 |
| Children's services (school libraries) | 0 | 0 | 0 | Records management | 1 | 1 | 2 |
| Children's services (public libraries) | 32 | 1 | 33 | Networks and consortia | 0 | 0 | 0 |
| Youth services (school libraries) | 20 | 3 | 23 | Freelance | 1 | 3 | 4 |
| Youth services (public libraries) | 114 | 12 | 126 | Pharmaceutical | 5 | 4 | 9 |
| Law | 28 | 11 | 39 | Professional associations | 0 | 0 | 0 |
| Business (finance, insurance, banking) | 23 | 8 | 31 | Technical writing | 2 | 1 | 3 |
| Medicine and nursing | 16 | 4 | 20 | International relations (including area studies) | 0 | 0 | 0 |
| Science and technology | 13 | 8 | 21 | Maps | 0 | 0 | 0 |
| Systems analysis and automation | 14 | 7 | 21 | Bookstore | 2 | 1 | 3 |
| Audiovisual and media centers | 9 | 3 | 12 | Genealogical | 0 | 0 | 0 |
| Bibliographic instruction | 7 | 2 | 9 | Services to the handicapped | 0 | 1 | 1 |
| Hospitals including Veterans Administration hospitals | 7 | 2 | 9 | Theatre, motion pictures, dance, music | 3 | 3 | 6 |
| Rare books, manuscripts, archives | 11 | 6 | 17 | Correctional institutions | 1 | 0 | 1 |
| Research and development | 3 | 0 | 3 | International agencies | 0 | 3 | 3 |
| Communications industry (advertising, newspaper, etc.) | 2 | 1 | 3 | Total Special Placements | 365 | 120 | 485 |

Source Adapted from Zipkowitz, 1992, Table 6, p. 35

DISPLAY 11 Annual Average Salaries of Librarians Employed in Special Libraries in 1985, by Gender

| Type | Number | Percent | Men | Women | Total |
|-----------|--------|---------|----------|----------|----------|
| Medical | 46 | 34.0 % | \$26,500 | \$22,400 | \$23,400 |
| Legal | 12 | 9.0 | * | 24,800 | 25,700 |
| Science | 22 | 16.0 | 30,300 | 27,600 | 26,700 |
| Corporate | 35 | 26.0 | 29,300 | 27,100 | 27,300 |
| Other | 20 | 15.0 | 23,600 | 24,500 | 24,100 |
| Total | 135 | 100.0 % | \$27,100 | \$24,700 | \$25,200 |

* Too few respondents to average and report, without violating confidentiality

Note Number includes some survey respondents who did not provide salary data

Source Detlefsen and Olson, 1990, p. 300

replaced its certificate program with a fifth-year baccalaureate program, and in 1955 it discontinued that program and established its master of library science program

In 1954, Berkeley authorized Ph D and D L S programs, and in 1973 it authorized a post-master's certificate. In 1976, its library school was formally renamed the School of Library and Information Studies, and in 1980 it retitled the master's and doctoral program degrees to include the phrase "information studies." In 1989, the school received renewed accreditation from the American Library Association for its master's degree program, and that same year, the campus began a review of the operation of the school. In 1991, the school discontinued its doctor of library and information studies program, although it retained its doctor of philosophy program, and thus past February, Berkeley's Academic Planning Board recommended that the school be reorganized and that a review group be formed to develop a clearer definition of the field and recommend a suitable administrative and programmatic structure for the school's programs by this November. Since this past February, admission to the school has been suspended, while campus financial support for the school has been maintained at its previous level.

In its vision statement, Berkeley's School of Library and Information Studies has described its primary focus as "information systems" -- that is, "providing an interface between the information and its consumer" (1993, Section 1). The school's doctoral program is interdisciplinary, geared toward the preparation of faculty and researchers. Students supplement its offerings with coursework from complementary programs in related fields. Its master's program prepares librarians and other information professionals. As one would anticipate, the school places a heavy emphasis on research, with its chief areas of investigation being information retrieval theory and information system design, modeling, use, users, and evaluation.

Display 12 on the next page provides information on the employment status and salaries of 1987, 1990, and 1991 graduates of Berkeley's program following commencement. As can be seen, more graduates have been employed in public libraries than in other libraries or agencies during each of the three years, median salaries have increased over the years from \$25,380 to \$32,000, and median salaries of public librarians have remained consistently lower than those of other librarians.

Like other schools of library and information service, Berkeley has taken steps to increase its enrollment of students from historically underrepresented groups, and between Fall 1988 to Fall 1991 it increased its proportion of these students from 13 to 26 percent. (As of 1991, according to Gomez, 88.5 percent of the nation's public and academic library staff was White, 6.1 percent was Black, 3.4 percent was Asian or Pacific Islander, 1.8 percent was Latino, and 0.2 percent was Native American.) In 1990, a group of professional librarians formed the Northern California Recruitment Committee to help Berkeley recruit and mentor underrepresented students. The Committee has used informational programs, workshops, and individual counseling to encourage potential candidates to attend the school, it has assisted in job placement, and it has formed a network of graduates and other professionals who work on the promotion of multicultural values and programs in California libraries.

DISPLAY 12 Employment Placements and Starting Salaries of Graduates of the University of California, Berkeley School of Library and Information Studies, 1987, 1990, and 1991

| Year | Employment Status | Number | Starting Salaries | | |
|------|--------------------------------|--------|-----------------------|----------|----------|
| | | | Low | High | Median |
| 1987 | Professional Employment | | | | |
| | Academic Librarian | 13 | n a | n a | \$25,800 |
| | Public Librarian | 17 | n a | n a | 20,328 |
| | Special Librarian | 13 | n a | n a | 24,960 |
| | Systems Analyst, etc | 8 | n a | n a | 34,200 |
| | Other Professional Employment | 0 | | | |
| | Paraprofessional Employment | 5 | | | |
| | Full-Time Student | 2 | | | |
| | Not Seeking Employment | 0 | | | |
| | Seeking Employment | 4 | | | |
| | Employment Status Not Reported | 27 | | | |
| | Total | 89 | Median of the Medians | | \$25,380 |
| 1990 | Professional Employment | | | | |
| | Academic Librarian | 16 | \$21,035 | \$34,000 | \$30,000 |
| | Public Librarian | 17 | 20,300 | 38,700 | 27,880 |
| | Special Librarian | 15 | 24,080 | 40,000 | 29,500 |
| | Systems Analyst, etc | 2 | 27,500 | 31,000 | 29,258 |
| | Other Professional Employment | 0 | | | |
| | Paraprofessional Employment | 5 | | | |
| | Full-Time Student | 4 | | | |
| | Not Seeking Employment | 2 | | | |
| | Seeking Employment | 2 | | | |
| | Employment Status Not Reported | 33 | | | |
| | Total | 96 | Median of the Medians | | \$29,379 |
| 1991 | Professional Employment | | | | |
| | Academic Librarian | 14 | \$23,000 | \$65,000 | \$32,000 |
| | Public Librarian | 17 | 20,000 | 32,000 | 28,058 |
| | Special Librarian | 9 | 24,000 | 33,000 | 28,903 |
| | Systems Analyst, etc | 6 | 28,000 | 50,000 | 33,500 |
| | Other Professional Employment | 5 | 26,415 | 45,000 | 38,507 |
| | Paraprofessional Employment | 12 | | | |
| | Full-Time Student | 4 | | | |
| | Not Seeking Employment | 3 | | | |
| | Seeking Employment | 3 | | | |
| | Employment Status Not Reported | 19 | | | |
| | Total | 92 | Median of the Medians | | \$32,000 |

Source Adapted from School of Library and Information Studies, University of California, Berkeley, 1993, Section 14

University of California, Los Angeles

The University of California, Los Angeles, established its Graduate School of Library and Information Sciences in 1958. The school's master's degree program in library science was first accredited in 1962, the school was authorized to initiate a post-master certificate program in 1968, and it opened a program leading to the doctorate in library and information sciences in 1976. In addition to those programs, it has offered three other master's degrees: MLS/MBA, MLS/MA-History, and MLS/MA-Latin American Studies.

This past June, a committee charged with restructuring UCLA's professional schools recommended transferring certain functions of the school to the Graduate School of Education but disestablishing the library and information sciences program. On August 17, however, UCLA's Chancellor Charles Young stated that "we are optimistic that a plan will emerge to enable UCLA to offer a downsized Master of Library Science degree under the administrative auspices of the Graduate School of Education." Faculty in both the library and education schools are currently working on developing this plan, which would have to be approved by UCLA's Academic Senate to be implemented.

To increase enrollment of historically underrepresented groups, in 1986, the school launched the National Association to Promote Library Services to the Spanish-Speaking (REFORMA) -- a mentoring program that seeks to pair Latino students with Latino librarians in the hopes of encouraging more Latino students to apply for admission. The mentors locate potential candidates among the UCLA student body, give them information about the library program, and assist interested students through the program's admissions process. The project enjoyed initial success. The number of Latino students entering the school doubled from five in Fall 1987 to ten in Fall 1990, and as of that fall, eight of the school's 15 Latino students were paired with mentors through the project. In 1991, the school developed a similar mentor program for Black students with the California Librarians Black Caucus, but with the disestablishment of the school, the future of these programs is in question.

San Jose State University

San Jose State University has offered graduate instruction in library science since 1928. Prior to the establishment of its Graduate School of Library and Information Science in 1968, the program was offered within the School of Education. The new school's program was accredited by the American Library Association in 1969. The program leads to the master of library science degree and to careers in public elementary and secondary school, higher education, and special libraries, including industry, medicine, and law.

The three chief goals of the school are

- To prepare students in the program leading to the master of library science degree to function effectively as information management professionals in libraries, information centers, and related environments in a multicultural and diverse society,

- To contribute to the improvement of the information professions and the university community through the School's service, and
- To promote research that supports the School's mission

In the Fall of 1989, a decade after the closure of the library school at California State University, Fullerton, and through the financial assistance of the Pasadena Public Library Foundation, San Jose's school opened a branch program on the Fullerton campus, which is located about 40 miles southeast of downtown Los Angeles. The academic requirements for students, faculty qualifications, and courses offered at Fullerton are the same as on the San Jose State campus, and Fullerton students receive their master of library and information science degrees from San Jose State. The major difference between the Fullerton and San Jose offerings is that the Fullerton program is operated as an extension program, in that all of its direct costs are borne by its students. It receives no State General Fund support other than the use of Fullerton campus facilities and some administrative services provided by the California State University to all of its 20 campuses.

During 1992-93, the San Jose State campus enrolled approximately 142 full-time-equivalent students, while the Fullerton campus enrolled some 65, for an estimated total of 207 full-time-equivalent students. Both programs enroll many adult students who work full time and attend on a part-time basis. Display 13 below details previous years' fall term full-time-equivalent enrollments on both campuses along with the total number of degrees awarded.

During Fall 1992, a team from the Committee on Accreditation of the American Library Association examined the San Jose State program and, in January of this year, the Committee voted to continue its accreditation of the program. Among the suggestions of the Committee, however, was that the school clarify the focus of its program, should it be geared more toward librarians or toward other information

DISPLAY 13 Full-Time-Equivalent Enrollment and Number of Graduates in San Jose State University's Master of Library and Information Sciences Program at San Jose and Fullerton, 1989-90 Through 1991-92

| <u>Category</u> | <u>1989-90</u> | | <u>1990-91</u> | | <u>1991-92</u> | |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Number</u> | <u>Percent</u> | <u>Number</u> | <u>Percent</u> |
| San Jose Campus | 128.4 | 75.6% | 144.5 | 67.4% | 177.8 | 65.0% |
| Fullerton Campus | <u>41.5</u> | <u>24.4</u> | <u>69.8</u> | <u>32.6</u> | <u>95.8</u> | <u>35.0</u> |
| Total | 169.9 | 100.0% | 214.3 | 100.0% | 273.6 | 100.0% |
| Full-Time Students | 57.0 | 33.5% | 81.0 | 37.8% | 95.0 | 34.7% |
| Part-Time Students | <u>112.9</u> | <u>66.5</u> | <u>133.3</u> | <u>62.2</u> | <u>178.6</u> | <u>65.2</u> |
| Total | 169.9 | 100.0% | 214.3 | 100.0% | 273.6 | 100.0% |
| Number of Graduates | 95 | | 116 | | 202 | |

Source: San Jose State University Graduate School of Library and Information Science

professionals, and should it emphasize more practical or more theoretical education. In part, the practical/theoretical dilemma has to do with the Fullerton portion of the program, where more students attend part time than on the main campus. The Committee also noted several areas in which Fullerton students appear to be disadvantaged relative to San Jose campus students, including counseling, assessment of performance and progress, stable financial support, and physical resources and facilities, and the Committee recommended that improvements be made in those Fullerton operations.

Enrollment and degree production of west coast programs

Display 14 below shows headcount enrollments and degrees awarded between 1988 and 1992 at the four library schools operating in the three west-coast states -- Berkeley, UCLA, San Jose State, and the University of Washington in Seattle (Similar data are unavailable on the two other schools in the western United States -- those at the University of Arizona and the University of Hawaii *). This display shows that enrollments in both of the University of California's library schools have fallen off in the past four years, while San Jose State's enrollment has climbed substantially and that of the University of Washington, which offers only one general degree

DISPLAY 14 Head-Count Enrollments and Degrees Conferred in Library Science Programs at the Four West Coast Universities Offering Such Programs, 1988 Through 1992

| Category, Institution, and Level of Program | | | | | | | Five-Year Change | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|------------------|---------|
| Enrollment | | Fall 1988 | Fall 1989 | Fall 1990 | Fall 1991 | Fall 1992 | Number | Percent |
| Berkeley | Master | 144 | 133 | 161 | 144 | 134 | -10 | - 7% |
| | Doctorate | 32 | 40 | 26 | 29 | 28 | -4 | -12% |
| UCLA | Master | 182 | 194 | 161 | 169 | 134 | -48 | -26% |
| | Doctorate | 18 | 15 | 15 | 19 | 28 | +10 | +56% |
| San Jose State | Master | 236 | 253 | 255 | 321 | 324 | +88 | +37% |
| University of Washington | Master | n a | 183 | 176 | 207 | 193 | +10 | +6% |
| Degrees Conferred | | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | Number | Percent |
| Berkeley | Master | 93 | 93 | 78 | 89 | 90 | -3 | -3% |
| | Doctorate | 1 | 7 | 1 | 3 | 3 | +2 | +200% |
| UCLA | Master | 74 | 73 | 93 | 82 | 90 | +16 | +11% |
| | Doctorate | 1 | 2 | 2 | 1 | 3 | +2 | +200% |
| San Jose State | Master | 94 | 72 | 95 | 116 | 171 | +77 | +82% |
| University of Washington | Master | 79 | 79 | 101 | 76 | 102 | +23 | +29% |

Source: California Postsecondary Education Commission staff analysis

* Prior to 1988, Arizona State University offered master's of arts and master's of education programs with a specialization in library science that were not eligible for ALA accreditation, but it suspended admissions to its programs that year and now offers no library programs. As noted earlier, this past summer Brigham Young University disestablished its ALA-accredited program in library and information science.

in library education -- the master of librarianship -- has remained relatively constant. Since admission to Berkeley's school was suspended as of this fall and UCLA plans to "downsize" its program, it seems likely that San Jose State will become the main provider of postbaccalaureate instruction in library science on the west coast.

Ratings of the University of California's schools

the administrators of academic libraries ranked UCLA third out of all 24 schools that offer both master's and doctoral programs -- behind only Michigan and Illinois -- and Berkeley tied for fifth place with Pittsburgh, while North Carolina at Chapel Hill was in fourth place.

Some sense of the quality of the University's two library schools can be derived from rankings of American and Canadian schools that offer both master's and doctoral degrees in library and information science. Over the past 13 years, Herbert S. White of Indiana University has conducted three surveys of directors of academic research libraries and faculty members of library schools -- most recently in 1992. He asked these two groups to rank the schools on three criteria: their "providing the highest-quality education for librarianship and information science" at the (1) master's and (2) doctoral levels, and (3) the contribution of their faculty "to the advancement of the profession through research, publication and leadership." The recent responses of both educators and administrators were highly favorable to Berkeley and UCLA. On the three criteria combined, the administrators of academic libraries ranked UCLA third out of all 24 schools that offer both master's and doctoral programs -- behind only Michigan and Illinois -- and Berkeley tied for fifth place with Pittsburgh, while North Carolina at Chapel Hill was in fourth place. The faculty members ranked UCLA fourth on the three criteria combined -- behind Illinois, Syracuse, and Chapel Hill, and they ranked Berkeley tenth of the 24, after Indiana, Wisconsin-Madison, Michigan, Rutgers, and Pittsburgh.

Display 15 below shows Berkeley's and UCLA's rankings on each of the three criteria by the two groups. White himself notes the problems inherent in rankings based upon perceptions, but these rankings show that UCLA and Berkeley are held in high esteem by research library administrators and other library educators.

DISPLAY 15 *Rankings of Berkeley's and UCLA's Library Schools Among 24 Such Schools on Three Criteria by Two Groups of Library Professionals, 1992*

| School | Rankings by Academic Research Library Administrators | | | | Rankings by Library School Faculty Members | | | |
|----------|--|-----------------------------|-------------------------|-------|--|-----------------------------|-------------------------|-------|
| | Quality of Master's Program | Quality of Doctoral Program | Contribution of Faculty | Total | Quality of Master's Program | Quality of Doctoral Program | Contribution of Faculty | Total |
| Berkeley | 5 | 6 | 7 tie | 5 tie | 10 | 3 | 10 | 10 |
| UCLA | 2 | 3 | 4 | 3 | 6 | 9 | 2 tie | 4 |

Source: White, 1993, pp. 176-183.

Issues of program viability

While much has been written about the closing of individual library schools, little thorough examination of the causes of these closures occurred until late in the 1980s. Until then, most closures were attributed to economic factors, such as the recession and cutbacks in social programs, and the impact that these factors have had on enrollments and the job market for librarians. When the major economic recession of the early 1980s swept through the nation -- taking millions of jobs and much of the tax base with it -- local and state governments were forced to make significant re-

ductions in social services Ohio, Pennsylvania, Michigan, and other states were hard hit by closings of auto plants and steel plants, New England lost major industries and saw property values plummet, and Texas suffered from a sharp drop in oil prices and revenues Higher education institutions, along with social service agencies, suffered from this retrenchment and were forced to initiate selective program reductions Library programs were among the most vulnerable for wholesale elimination, as opposed to retrenchment or consolidation, in that they were seen as being less than necessary to the long-term welfare of their institutions In many institutions, enrollments in graduate library programs were declining, and despite national increases in full-time-equivalent enrollments at library schools, the number of master's degrees they awarded was dropping

recent studies of library school closings indicate that academic institutions are not immune to using prospective financial stringency to spur closures that would otherwise be difficult to justify While economic viability is an obvious factor in decisions to retain or eliminate programs and schools, other factors are involved as well "

Yet recent studies of library school closings indicate that academic institutions are not immune to using prospective financial stringency to spur closures that would otherwise be difficult to justify While economic viability is an obvious factor in decisions to retain or eliminate programs and schools, other factors are involved as well Budgetary shortfalls are often used as the reason for program closures, but these closures are probably less driven by budget problems than rationalized by them

For instance, Marion Paris concludes in a report entitled "Library School Closings Four Case Studies" (1988), that the political environment in which these four schools existed was as important in their closure as their economic environment The schools had maintained low political profiles within their institutions and, as such, were not highly thought of by institutional administrators and academic colleagues in other departments and schools Thus, when the institutions began to scrutinize their activities during budget crises, these schools were thought to be "weak sisters" that the universities could jettison in a climate of retrenchment and reallocation According to Paris, "the closings were not retrenchment decisions but political ones Said one of the vice presidents interviewed, 'I never closed anything as an austerity move' " (p 89)

Part of the problem was that the library schools had not fared well in battling the old, sexist perceptions of librarianship As Paris observed (*ibid*)

library schools are easy prey because of their largely female, low-status constituencies Parallels have been drawn with nursing, social work, and education, female-dominated fields whose education programs have also been cut

What has happened with these schools is common in the private sector, where corporations use economic downturns to tighten their operations by shedding operations seen as unprofitable -- even if the immediate fiscal crises are not, in and of themselves, genuinely serious enough to warrant such substantial changes

Evidence of the lack of clout of these schools can be found in how little influence library school alumni carry when an institution is considering closing their school, as compared with alumni of some other schools One faculty member refers to it as the "Princeton syndrome" ("*Columbia Treads Carefully* . ", 1990), whereby wealthy alumni of powerful graduate programs such as law, business, or medicine

can be counted upon to defend their programs against closure during tight budgets to the detriment of low-prestige programs that graduate lower-earning-power practitioners

In another study, Richard K. Gardner argues that the small size of library schools and their lack of a history of conducting basic theoretical research as opposed to practical professional studies tend to adversely impact the view of them held by others in their institutions (1987, p. 38)

There is no tradition of research in many schools, no encouragement is given to faculty who wish to embark upon it. But even where a desire to do research exists, the basic problem of the small size of most library school faculties remains

Gardner also concludes that the lack of integration of library school courses with similar courses in other departments, as well as the independence sought by many library program faculty -- within schools headed by their own deans, rather than in departments headed by chairs -- has often led to isolation and a lack of understanding on the part of the larger campus as to the schools' contributions to the institutions' overall mission. Thus, when budget cutting time arrives, library programs are in danger because university decision makers, not closely exposed to the school, may see its programs as being only tangential to institutional priorities

"when budget cutting time arrives library programs are in danger because university decision makers, not closely exposed to the school, may see its programs as being only tangential to institutional priorities"

An illustration of this isolation involves newly evolving information technologies. In some universities, departments and schools of business, communications, and computer science -- and even offices of institutional research -- have tended to be more aggressive and better equipped than schools of library and information services to take advantage of advances in information collection and dissemination technology and in securing domain over some of this equipment -- leaving university administrators with the problem of determining the role that the library school should play with these other units in technological development and use. Even technologies for information dissemination, such as distance learning, through which local and state public libraries serve rural areas, are often housed in units far removed from library and information services

In 1992, Karen Ceppos applied organizational research methods to her study of a large number of library schools to determine the factors common to those that had survived over a long period of time. Her research took into account the structure of the schools and their larger institutions, institutional type and support, enrollment trends, school leadership and staff diversity, faculty self-perceptions, perceptions of the school by other faculty, and other factors -- even, for instance, the life cycle of the schools and their institutions, for the reason that as organizations mature, they tend to become more institutionalized and less innovative. She found that survivability over the long term related to a school's ability to innovate -- defined as the need for change when there is a perceived gap between performance and expectation -- but she noted that this innovation must be moderate in nature, in that the most innovative schools were not necessarily the best survivors. Schools with steady enrollment increases that were located in publicly governed institutions tended to survive the longest, but in order to grow in enrollments and resources, schools had to

be well-perceived by campus faculty and administrators. Schools that survived tended to be more politically astute in developing and implementing survival strategies, evidencing strength in areas where other schools tend to be weak, including research and publication, representation on institutional committees, and political activity as necessary.

As survival strategies for endangered library schools, Ceppos suggests increasing visibility on campus, building cross-departmental coalitions within the institution and bridges to constituencies outside the institution, becoming entrepreneurial, and developing an incremental approach to curriculum innovation and program development.

In sum, even though the proximate reason for library school closures may involve strained institutional finance, library schools in general appear to do an inadequate job, or at least have a hard time, of making their own case -- be it the quality of their programs, the research done by their faculty members, or their centrality to the mission of their institutions.

**Challenges
facing
library
and
information
service
programs**

Library and information service programs, like virtually all professional programs, are criticized in opposite ways by practitioners of the profession and academics. On the one hand, professionals in the field often believe that library schools have discarded an emphasis on hands-on, operational library skills in favor of theory and high-tech computer-driven information science. On the other, critics in academe tend to believe that library schools generally lack a sufficient theoretical research base and are slow to adapt to change, such as integrating information science developments into the curriculum -- lamenting that much of what library schools label "information science" is merely computer literacy training.

curriculum
planners face
several
challenges that
appear
particularly
urgent
(1) the place
of graduate
programs in
professional
preparation,
(2) the relation
of these
programs to
new technologies
and new
occupations, and
(3) the effective
structuring
of program
offerings

These viewpoints highlight the identity crisis that exists for all occupational programs where the expectations of practicing professionals and academics are both high and typically at cross-purposes. Despite the continual efforts of academics at curricular refinement and reform, such differences of opinion will probably never be resolved in library and information services. And education for library and information service faces many other challenges similar to those in other fields -- among them, recruitment of the most able and widely diverse students, expansion of continuing education for practitioners in the field, and replacement of aging faculty.

Within library and information services, however, curriculum planners face several challenges that appear particularly urgent. Three of them are discussed in the remaining pages of this report: (1) the place of graduate programs in professional preparation, (2) the relation of these programs to new technologies and new occupations, and (3) the effective structuring of program offerings.

1 The place of graduate programs in professional preparation

"American libraries made a great mistake when they insisted that all professional library education had to be at the graduate level," states Gardner, in that all staff

have had to be prepared "in the same program for the past 60 years" (1987, p 45) Like most other professions, library and information science is faced with the issue of recognizing different levels of staff responsibility -- and then training staff for these different levels Yet in America, considerable controversy appears to exist within the field over this issue

According to Gardner, other countries have resolved the issue more clearly than has America For example, in France, three separate levels of library staff -- library clerks, library assistants, and librarians -- have their own level of training

- ♦ Library clerks undertake routine, basic library work that requires only minimal library-specific training beyond compulsory education
- ♦ Library assistants, in contrast, undertake acquisition, classification, and cataloging, and work with the public in circulation, general reference, children's departments, and audiovisual services They have usually completed university-level coursework in library and information sciences that would be the equivalent of a minor at the undergraduate level in America
- ♦ Finally, librarians fulfill the most complex professional responsibilities and are the equivalent of graduate-trained professionals in America

Gardner reports that the French system is fairly flexible, with upward mobility common through the three levels Staff can move to a higher level either by acquiring additional educational training or, after a certain number of years of experience, by successfully completing qualifying examinations

In the United States, a less rigid system of employment categories exists, but corresponding levels of preparation are only now emerging within community colleges and baccalaureate-level institutions As an example, for entry-level employment in largely clerical and technical positions, community colleges offer both certificate and associate degrees in library assisting and information studies, including archival studies In California, at least 17 community colleges offered associate degrees in the field as of 1990 -- Antelope Valley, Cabrillo, Chabot, Citrus, City College of San Francisco, Desert, Fresno City, Foothill, Fullerton, Glendale, Hartnell, Mt San Jacinto, Palomar, Sacramento City, Sierra, Siskiyous, and Yuba These institutions together awarded 26 library-related degrees in 1989-90, 22 in 1990-91, and 25 in 1991-92 Another six colleges offer certificate or other programs in the field -- Cuesta, Imperial Valley, Los Angeles Trade-Technical, Marin, Rio Hondo, and San Jose City Some students in these programs already possess bachelor's degrees but enroll for specific library and information training because of their job responsibilities in information services within business corporations or other organizations

In addition, a number of baccalaureate degree-granting colleges and doctoral-level universities offer undergraduate training in library and information services leading to the bachelor's degree During the 1980s, for instance, several universities that already offered graduate library programs, including North Texas, Louisiana State, and Syracuse, began offering undergraduate programs in library and information fields, such as information resource management In 1984, Drexel University inau-

gured a five-year B S program in information systems through its College of Information Sciences -- its graduate library school. The program focuses on technical and behavioral aspects of information services, and it includes three six-month paid internships in an information service setting in order to prepare students for careers as systems analysts, applications programmers, and information systems specialists.

Similarly, Pittsburgh offers a bachelor of science in information sciences that it describes as "preparing students in the use of modern technology for managing the growth and use of knowledge and meeting day to day demands for the application of knowledge resources to problem solving and decision making." And in Canada, the Université de Montreal and other institutions have created 30-hour undergraduate programs in archives and records management, in response to an information-access law that requires all public entities to organize their records so that in less than three weeks they can provide an answer to any citizen requesting information. That law created a market for people specifically trained in records management, and library schools in Canada sought to satisfy this demand. Although initially designed for personnel already working in the library field, the programs were later aimed at regular university students who combine this work, which is the equivalent of a minor, with their major course of study. Reportedly, within three years of Montreal's creation of its program, as many students were enrolled in it as in the graduate program in library and information science.

Nearly all of these new undergraduate programs have been in the information sciences rather than in librarianship as such. A yet unanswered question is what library staff can best be trained in less-than-graduate-level education. Both academics and practitioners have determined that solely undergraduate preparation is insufficient for professional librarianship, and some university faculty express concern that increasing emphasis on baccalaureate-level programs could hurt the library profession by lowering the standards under which librarians are prepared. Some cite as an example a 1983 proposal (later withdrawn) from the U S Office of Personnel Management to require only a bachelor's degree with six library and information science courses for entry-level employment in federal libraries. And some feel that preparation for library employment at the undergraduate level could more appropriately be offered as on-the-job training.

Yet such opposition as this to baccalaureate programs in library and information science runs counter to the trend in most professions of an increasing array of specialists competent to work at different and increasingly complex levels -- as illustrated not only in the health professions but also in engineering and social services. In his "conceptual model" of librarianship (1987), Ronald Bryson has described five roles through which librarians evolve: custodians, responsive librarians, active librarians, innovators, and leaders. He advocates that the bachelor's degree is appropriate for at least the first two of these roles -- custodians and responsive librarians -- and he recommends that library educators and the profession establish the legitimacy of a full range of education and training for related but differentiated positions in librarianship. Basic cataloging, classification, and technology-driven

Despite the concern of some educators to associate-degree and baccalaureate preparation for library and information service, the trend toward differential staffing requires that faculty of graduate programs rethink their role in the preparation and upgrading of librarians and other information service specialists "

reference work and records management are areas of librarianship that seem particularly appropriate for undergraduate training. Regarding records management, as of 1987 more than half of the accredited graduate library programs in North America included some courses on archives and records management from which it would not take much effort to develop undergraduate programs.

Despite the concern of some educators to associate-degree and baccalaureate preparation for library and information service, the trend toward differential staffing requires that faculty of graduate programs rethink their role in the preparation and upgrading of librarians and other information service specialists. As Evelyn Daniel notes, "the MLS is not alone. We cannot continue to accept the fiction that the MLS is the first professional degree or the only professional degree" (1987, p. 65).

2 The relation of graduate programs to new technologies and new occupations

The advent of new information technologies has necessitated major re-examinations of curricula in library programs. Daniel observes that older cataloguing and classification courses have given way to information storage and retrieval course offerings, reference courses have been recast as reference and information service courses, and courses in library administration have expanded into a much broader study of generic administration and managerial theory and strategy.

As the nearly sole preparers of professional librarians, schools of library and information service face the need to address wider issues of professional preparation than some traditionally saw as being within their purview. Librarians today operate in a more complicated work environment than in years past, they must organize vast information resources, quickly adapt to new technologies, and make these resources available to an increasingly diverse public, some of whose members may be more technological literate than they themselves and who range from highly skilled researchers and scholars to novice researchers yet techno-literate school students.

At the same time, libraries have suffered a steady retrenchment as federal, state, local government, and educational institution funding has declined and the costs of library materials has increased. Staffing cuts at many libraries have significantly increased the workload on surviving staff. All this has led to the need for workers who are both more technically skilled and able to work effectively with diverse clientele. Just as libraries are developing new approaches to marketing and customer service in order to meet their clients' needs, it is clear that library schools will be expected to develop future librarians who are innovative and pro-active problem solvers -- "masters of change, not victims of it" (Paris, 1991, p. 23).

Information technology has long been a part of library education, but innovations involving computers -- laptops, local-area and national computer networks, integrated systems, online data retrieval, CD-ROM data bases, and interactive audiovisual systems such as computer-linked videodiscs -- are transforming library information search, acquisition, retrieval, processing, and storage to an extent unimagined a quarter century ago. To illustrate, as search technology becomes more sophisticated, librarians' training needs in online searching increase. In response, schools of library

and information science are holding workshops for their students and area librarians at which vendors of online searching equipment for libraries, including Dialog, BRS, and Medline, introduce their new databases and search features, and some schools are offering advanced courses on online searches that emphasize their administration and database management and include instruction on establishing an online search service, operating the system, developing administrative policies for its use, and understanding the economics of its use. Daniel notes that instruction in online searching often "serves as a bridge" between more traditional library courses and information science education.

Much of the newer, computer-driven online searching capacity previously used exclusively by librarians is now available to library users themselves. To make these holdings and databases more "user friendly" for library clientele, librarians skilled in operating online searching are turning their attention toward the design and management of the online databases.

An incentive for library schools and libraries in general to accelerate the pace of their integration of state-of-the-art computer technology into their operations is the growth of other information services utilizing this technology. Malinconico (1992) notes that an entire electronic database industry has developed in recent years, generating revenues of \$11 billion in 1992 and projecting revenues of \$22 billion by 1995. Initially, NASA and other highly specialized businesses were the main users of these separate information services, but they are now commonplace in business and industry. Among corporations involved in providing these services is Ameritech (the regional telephone company that serves the midwest), which has acquired the rights to NOTIS -- an integrated data system used by academic libraries -- the OCLC LS200 system, and Dynix -- one of the world's most widely used library systems. Simon & Schuster, Time Warner, US West (the Northwest states' "Baby Bell"), and Xerox are also developing or producing information delivery systems.

While libraries will continue to be the chief front-line providers of print and electronic information to the general public, as well as the main consultants for the research information needs of scholars, students, and others, they can complement these newer corporate information providers by providing access points for their systems, offering assistance and professional training for users, and even acting as design partners for these systems. Many information companies, for example, have much operational experience in the technology of delivering data but little expertise in designing and organizing access to those data. By advancing the role of technology and the technological literacy and sophistication of their staff, libraries will be able to work in concert with these electronic data-base vendors.

Besides computer technology, a second environmental change to which schools of library and information service are finding they must respond is the growth of private-sector information services. Until recently, most graduates of these schools found work either in public libraries, educational institutions, or government and non-profit special libraries, but -- as noted earlier -- corporate information centers offer a growing source of employment to graduate-trained librarians. The main goal of these services is to provide useful and timely information to their parent company.

With the development of more advanced information technology, smaller and smaller business and other private-sector organizations are realizing the value of having a support unit to coordinate the collection and dissemination of information. Since the focus of most library education programs historically has not been the private sector, developing ways to meet the evolving needs of these organizations offers library schools an opportunity to enhance their impact as well as their viability."

Unlike school, academic, and public libraries, which generally run as essentially stand-alone operations, corporate libraries most often operate as support units within the organization in helping it achieve its objectives -- typically, the production and marketing of a product or service. These units vary in sophistication from elemental data acquisition and dissemination operations to highly complex systems of information management, analysis, literature abstractors, and indexers. They tend to focus on organizing, creating, and providing access to information for a specific group of users. In the past, they have obtained this information largely from external sources, but in recent years they have shifted their focus to acquiring and disseminating internally generated information.

Although some positions in corporate and other private-sector information centers call for specific areas of expertise, most have need of persons with an information services management background or education. This is why library and information service programs tend to provide good candidates for these positions. A 1985 survey of large and mid-sized corporate library managers by White and Paris found that the school coursework they ranked as most important was mostly reference, online searching, advanced cataloging, and classification. With the computer becoming the linchpin of corporate communication and information storage, further coursework in electronic information systems is becoming essential.

Corporations usually have other data centers in addition to their information center or library -- for example, management information systems, records management, information analysis and support systems, and these different support units may tend to work in relative isolation from one another. Thus many corporations look for library school graduates with strong interpersonal and communications skills -- people who can quickly acquire and transmit information among complementary and sometimes competing units within the larger organization.

With the development of more advanced information technology, smaller and smaller business and other private-sector organizations are realizing the value of having a support unit to coordinate the collection and dissemination of information. Since the focus of most library education programs historically has not been the private sector, developing ways to meet the evolving needs of these organizations offers library schools an opportunity to enhance their impact as well as their viability.

3 Effective structuring of program offerings

Many graduate library education programs still operate as one-year programs, but as the breadth of information science has increased, some schools have found it impossible to cover important material in just two semesters. Since the mid-1970s, some have offered their master's programs in a two-year format like many other professional schools. Additionally, they have recognized that re-entry students far removed from their undergraduate training often need additional coursework in order to acquire new skills -- for example, in computer literacy -- that are required for advanced coursework. Two-year programs often offer one full year of common core studies, sometimes an internship during the summer, and then a full year of more

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specialized education in the profession

In California, UCLA's school offers its master of library science program of 72 quarter units as a full-time two-year course of study and its three concurrent-degree programs as two-and-one-half-year sequences. At Berkeley, although students theoretically may complete the 28-unit master in library and information studies program in one year, they are advised to plan to spend three semesters plus a summer session to complete all of its required coursework successfully. Berkeley students who do not attend full-time obviously require more than these three semesters to graduate, but because of University policy they must pay full-time fees for their part-time attendance.

If increasing numbers of students applying to graduate programs in library and information science are "nontraditional," in that they are working adults seeking to change professions, schools would be wise to consider whether the full-time orientation of their programs may discourage prospective students who have heavier job and family responsibilities than those of young adults.

San Jose State School of Library and Information Sciences has recognized the part-timeness of its student clientele in the design of its master's program, which requires the completion of 42 semester academic units and either a thesis or comprehensive examination. The program can be completed in three semesters and one summer, with students who start in the fall taking summer coursework between their second and third semesters. On both the San Jose and Fullerton campuses, the school offers courses at all times of the day and on Saturdays, and it offers a large part of the curriculum during the summer in twelve-, nine-, six-, and three-week sessions as well as in short courses during the four-week winter session. The flexibility in design of this program enables working adult students to enter and complete this program with less disruption to their schedules than would a traditional two-year, four-semester, no-weekend-or-summer course graduate program.

In summary, not many adults contemplating a career change to library and information service can take the time or commit the financial resources necessary to complete a full-time two-year course of study. If graduate library and information science programs are to increase their attractiveness, particularly for working and older students, a more adaptive program is needed than the standard full-time master's program schedule -- particularly one that makes no provision for part-time fees.

Conclusion

Despite the continuing financial problems of public and educational libraries, stemming from cutbacks during the 1980s of social services in general, the market for graduates of library and information service programs will increase into the next century -- most likely less within libraries *per se* than in information centers within other public- and private-sector organizations, ranging from telephone companies, and other data-intensive corporations to government agencies and non-profit organizations. At the federal level, the new administration's commitment to strengthen information networks among academic institutions and corporations will increase the need for well-prepared specialists in information services and systems -- and for the programs that prepare them.

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Unfortunately, because some library schools are seen as separate and apart from the ongoing activities and pursuits of their larger institution, they are more susceptible to closure than are other units within the institution. Better integration of their programs into the life of the rest of the institution will stand those schools in better stead. The leaders of a number of schools are already taking steps in this direction. For others, this integration could take a number of forms, including

- ♦ Seeking greater cooperation with other units of the campus that rely on information technology and other library-related activities, for reasons of both effectiveness and political strength,
- ♦ Conducting more research on areas that benefit both the pursuit of knowledge and the academic status of the institution -- and then sharing the resulting knowledge with other academic and administrative departments, and
- ♦ Maintaining the most up-to-date offerings and responding to the evolving needs of the profession by soliciting the advice of library practitioners, non-library employers of graduates, and other information service specialists

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CALIFORNIA POSTSECONDARY EDUCATION COMMISSION

THE California Postsecondary Education Commission is a citizen board established in 1974 by the Legislature and Governor to coordinate the efforts of California's colleges and universities and to provide independent, non-partisan policy analysis and recommendations to the Governor and Legislature

Members of the Commission

The Commission consists of 17 members. Nine represent the general public, with three each appointed for six-year terms by the Governor, the Senate Rules Committee, and the Speaker of the Assembly. Six others represent the major segments of postsecondary education in California. Two student members are appointed by the Governor.

As of April 1995, the Commissioners representing the general public are:

Henry Der, San Francisco, *Chair*
Guillermo Rodriguez, Jr., San Francisco, *Vice Chair*
Elaine Alquist, Santa Clara
Mim Andelson, Los Angeles
C. Thomas Dean, Long Beach
Jeffrey I. Marston, San Diego
Melinda G. Wilson, Torrance
Linda J. Wong, Los Angeles
Ellen F. Wright, Saratoga

Representatives of the segments are:

Roy T. Brophy, Fair Oaks, appointed by the Regents of the University of California,
Yvonne W. Larsen, San Diego, appointed by the California State Board of Education,
Alice Petrossian, Glendale, appointed by the Board of Governors of the California Community Colleges;
Ted J. Saenger, San Francisco, appointed by the Trustees of the California State University,
Kyhl Smeby, Pasadena, appointed by the Governor to represent California's independent colleges and universities, and
Frank R. Martinez, San Luis Obispo, appointed by the Council for Private Postsecondary and Vocational Education.

The two student representatives are
Stephen Leshner, Meadow Vista
Beverly A. Sandeen, Costa Mesa

Functions of the Commission

The Commission is charged by the Legislature and Governor to "assure the effective utilization of public postsecondary education resources, thereby eliminating waste and unnecessary duplication, and to promote diversity, innovation, and responsiveness to student and societal needs."

To this end, the Commission conducts independent reviews of matters affecting the 2,600 institutions of postsecondary education in California, including community colleges, four-year colleges, universities, and professional and occupational schools.

As an advisory body to the Legislature and Governor, the Commission does not govern or administer any institutions, nor does it approve, authorize, or accredit any of them. Instead, it performs its specific duties of planning, evaluation, and coordination by cooperating with other State agencies and non-governmental groups that perform those other governing, administrative, and assessment functions.

Operation of the Commission

The Commission holds regular meetings throughout the year at which it debates and takes action on staff studies and takes positions on proposed legislation affecting education beyond the high school in California. By law, its meetings are open to the public. Requests to speak at a meeting may be made by writing the Commission in advance or by submitting a request before the start of the meeting.

The Commission's day-to-day work is carried out by its staff in Sacramento, under the guidance of its executive director, Warren Halsey Fox, Ph.D., who is appointed by the Commission.

Further information about the Commission and its publications may be obtained from the Commission offices at 1303 J Street, Suite 500, Sacramento, California 95814-2938, telephone (916) 445-7933.

Library and Information Services Education in California

Commission Report 93-20



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- 93-9 *A New Policy on Undergraduate Student Charges at California's Public Universities: Recommendations of the California Postsecondary Education Commission* (June 1993)
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